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Cobalt protein complex	5

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<u>L3</u>	(Cobalt) with protein	916	<u>L3</u>
<u>L2</u>	L1 same (complex)	10178	<u>L2</u>
<u>L1</u>	(Cobalt CO) same protein	71869	<u>L1</u>

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1. [20050096260](#). 26 Apr 04. 05 May 05. Metal complex-protein composite and oxidation catalyst. Ueno, Takafumi, et al. 514/6; 530/400 A61K038/16 C07K016/00 C07K014/00.

2. [20040158047](#). 21 Aug 03. 12 Aug 04. Method for producing cobalt-protein complex. Yamashita, Ichiro. 530/400; C07K014/47.

3. [20040115132](#). 19 May 03. 17 Jun 04. Protein cages for the delivery of medical imaging and therapeutic agents. Young, Mark J., et al. 424/9.34; 530/400 A61K049/00.

4. [JP02003113198A](#). 01 Oct 01. 18 Apr 03. METHOD FOR MAKING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. C07K014/435; C07K001/02 H01L021/8247 H01L027/115 H01L029/06 H01L029/788 H01L029/792.

5. [EP001433743A1](#). 27 Sep 02. 30 Jun 04. METHOD FOR PREPARING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. B82B003/00; H01L051/00 H01L021/8247 H01L029/788 H01L027/115 C07K014/47 C07K001/02.

6. [WO003031322A1](#). 27 Sep 02. 17 Apr 03. METHOD FOR PREPARING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. B82B003/00; H01L051/00 H01L021/8247 H01L029/788 H01L027/115 C07K014/47 C07K001/02.

7. [WO2003031322A](#). Preparation of cobalt-protein complex comprises mixing buffer solution, protein solution and cobalt 2+ ion solution, followed by adding oxidizing agent. YAMASHITA, I. B82B003/00 C07K001/02 C07K014/435 C07K014/47 H01L021/8247 H01L027/115 H01L029/06 H01L029/788 H01L029/792 H01L051/00.

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File: EPAB

Jun 30, 2004

PUB-NO: EP001433743A1

DOCUMENT-IDENTIFIER: EP 1433743 A1

TITLE: METHOD FOR PREPARING COBALT-PROTEIN COMPLEX

PUBN-DATE: June 30, 2004

INVENTOR-INFORMATION:

NAME

COUNTRY

YAMASHITA, ICHIRO

JP

ASSIGNEE-INFORMATION:

NAME

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MATSUSHITA ELECTRIC IND CO LTD

JP

APPL-NO: EP02772954

APPL-DATE: September 27, 2002

PRIORITY-DATA: JP2001305273A (October 1, 2001)

INT-CL (IPC) : B82 B 3/00; H01 L 51/00; H01 L 21/8247; H01 L 29/788; H01 L 27/115;C07 K 14/47; C07 K 1/02

EUR-CL (EPC) : C07K014/47

ABSTRACT:

CHG DATE=20040706 STATUS=O>The present invention provides a method for obtaining a cobalt-apo ferritin complex in which a cobalt particle having a uniform diameter is formed. First, as shown in Step St1, a reaction solution is prepared by mixing a HEPES buffer solution, an apo ferritin solution and a Co²⁺ ion solution (e.g. cobalt nitrate) in this order, as shown in FIG. 2. Next, in Step St2, an oxidizing agent (e.g., H₂O₂) is added to the reaction solution as shown in FIG. 2. By this operation, cobalt hydroxide (CoO(OH)) is introduced into a holding portion 4 of the apo ferritin 1 so that cobalt-apo ferritin complexes are generated. Note that all operations for producing the cobalt-apo ferritin complexes described above are carried out at room temperature while the reaction solution is stirred by a stirrer.

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1. 5439829. 24 Jan 92; 08 Aug 95. Immobilization of biologically active molecules by changing the Oxidation state of a chelated transition metal ion. Anderson; Leslie D., et al. 436/518; 435/174 435/177 435/178 435/181 435/71.1 436/528 436/529 436/532 436/824 530/413 530/810 530/812 530/813 530/816. G01N033/543 G01N033/549 C12N011/00 C07K017/00 .

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1. [20010049141](#). 13 Feb 98. 06 Dec 01. DRY POWDER CELLS AND CELL CULTURE REAGENTS AND METHODS OF PRODUCTION THEREOF. FIKE, RICHARD, et al. 435/384; 435/404 C12N005/00 C12N005/02.

2. [6696561](#). 23 Jun 00; 24 Feb 04. Corynebacterium glutamicum genes encoding proteins involved in membrane synthesis and membrane transport. Pompejus; Markus, et al. 536/23.7; 530/350. C12N015/31 C07K014/195 .

3. [6383810](#). 13 Feb 98; 07 May 02. Dry powder cells and cell culture reagents and methods of production thereof. Fike; Richard, et al. 435/384; 435/243 435/253.6 435/255.21 435/256.8 435/325 435/404 435/410 435/431. C12N005/00 C12N001/20 C12N001/14 C12N001/16 C12N001/18 .

4. [5439829](#). 24 Jan 92; 08 Aug 95. Immobilization of biologically active molecules by changing the Oxidation state of a chelated transition metal ion. Anderson; Leslie D., et al. 436/518; 435/174 435/177 435/178 435/181 435/71.1 436/528 436/529 436/532 436/824 530/413 530/810 530/812 530/813 530/816. G01N033/543 G01N033/549 C12N011/00 C07K017/00 .

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1. 20040158047. 21 Aug 03. 12 Aug 04. Method for producing cobalt-protein complex. Yamashita, Ichiro. 530/400; C07K014/47.

2. JP02003113198A. 01 Oct 01. 18 Apr 03. METHOD FOR MAKING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. C07K014/435; C07K001/02 H01L021/8247 H01L027/115 H01L029/06 H01L029/788 H01L029/792.

3. EP001433743A1. 27 Sep 02. 30 Jun 04. METHOD FOR PREPARING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. B82B003/00; H01L051/00 H01L021/8247 H01L029/788 H01L027/115 C07K014/47 C07K001/02.

4. WO003031322A1. 27 Sep 02. 17 Apr 03. METHOD FOR PREPARING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. B82B003/00; H01L051/00 H01L021/8247 H01L029/788 H01L027/115 C07K014/47 C07K001/02.

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1. 20040158047. 21 Aug 03. 12 Aug 04. Method for producing cobalt-protein complex. Yamashita, Ichiro. 530/400; C07K014/47.

2. JP02003113198A. 01 Oct 01. 18 Apr 03. METHOD FOR MAKING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. C07K014/435; C07K001/02 H01L021/8247 H01L027/115 H01L029/06 H01L029/788 H01L029/792.

3. EP001433743A1. 27 Sep 02. 30 Jun 04. METHOD FOR PREPARING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. B82B003/00; H01L051/00 H01L021/8247 H01L029/788 H01L027/115 C07K014/47 C07K001/02.

4. WO003031322A1. 27 Sep 02. 17 Apr 03. METHOD FOR PREPARING COBALT-PROTEIN COMPLEX. YAMASHITA, ICHIRO. B82B003/00; H01L051/00 H01L021/8247 H01L029/788 H01L027/115 C07K014/47 C07K001/02.

5. WO2003031322A. Preparation of cobalt-protein complex comprises mixing buffer solution, protein solution and cobalt 2+ ion solution, followed by adding oxidizing agent. YAMASHITA, I. B82B003/00 C07K001/02 C07K014/435 C07K014/47 H01L021/8247 H01L027/115 H01L029/06 H01L029/788 H01L029/792 H01L051/00.

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Inventor Information for 10/644774

Inventor Name	City	State/Country
YAMASHITA, ICHIRO	NARA-SHI	JAPAN

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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = YAMASHITA

First Name = ICHIRO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>06284568</u>	<u>4412454</u>	150	07/17/1981	SENSING UNIT FOR A PRESSURE	YAMASHITA, ICHIRO
<u>06293982</u>	<u>4434671</u>	150	08/18/1981	TENSTION SENSOR	YAMASHITA, ICHIRO
<u>06496493</u>	<u>4507523</u>	150	05/17/1983	POSITION DETERMINATION APPARATUS	YAMASHITA, ICHIRO
<u>06667224</u>	<u>4625562</u>	150	11/01/1984	AMORPHOUS MAGNETIC ALLOY SENSOR	YAMASHITA, ICHIRO
<u>06711014</u>	Not Issued	166	03/12/1985	STRESS-SENSITIVE SENSORS UTILIZING AMORPHOUS MAGNETIC ALLOYS	YAMASHITA, ICHIRO
<u>06798030</u>	Not Issued	166	11/14/1985	ACTIVE MATRIX CIRCUIT FOR LIQUID CRYSTAL DISPLAYS	YAMASHITA, ICHIRO
<u>06828447</u>	Not Issued	161	02/10/1986	THIN FILM TRANSISTOR ARRAY AND METHOD OF MANUFACTURING SAME	YAMASHITA, ICHIRO
<u>06845120</u>	Not Issued	166	03/27/1986	THIN FILM TRANSISTOR ARRAY AND METHOD OF MANUFACTURING	YAMASHITA, ICHIRO
<u>06853717</u>	<u>4812758</u>	150	04/18/1986	METHOD OF OPERATING AN AMORPHOUS-MAGNETIC-ALLOY SENSOR	YAMASHITA, ICHIRO
<u>06854605</u>	<u>4780671</u>	150	04/22/1986	MAGNETICALLY OPERATED NON-CONTACT MAGNETIC TORQUE SENSOR FOR SHAFTS	YAMASHITA, ICHIRO
<u>06882535</u>	<u>4696192</u>	150	07/07/1986	FLUID PRESSURE SENSOR	YAMASHITA, ICHIRO
<u>06925476</u>	Not Issued	166	10/31/1986	STRESS-SENSITIVE SENSORS UTILIZING AMORPHOUS MAGNETIC	YAMASHITA, ICHIRO

				ALLOYS	
<u>06928408</u>	4765192	150	11/10/1986	TORQUE SENSOR	YAMASHITA, ICHIRO
<u>07071821</u>	Not Issued	161	07/10/1987	TWO-DIMENSIONAL PIEZOELECTRIC ACTUATOR	YAMASHITA, ICHIRO
<u>07103743</u>	4785671	150	10/02/1987	STRESS-SENSITIVE SENSORS UTILIZING AMORPHOUS MAGNETIC ALLOYS	YAMASHITA, ICHIRO
<u>07144787</u>	4890097	150	01/21/1988	ACTIVE MATRIX CIRCUIT FOR LIQUID CRYSTAL DISPLAYS	YAMASHITA, ICHIRO
<u>07168318</u>	4936656	150	03/18/1988	VIDEO PROJECTOR	YAMASHITA, ICHIRO
<u>07188623</u>	4958205	150	04/29/1988	THIN FILM TRANSISTOR ARRAY AND METHOD OF MANUFACTURING THE SAME	YAMASHITA, ICHIRO
<u>07313799</u>	4981549	150	02/22/1989	METHOD AND APPARATUS FOR GROWING SILICON CRYSTALS	YAMASHITA, ICHIRO
<u>07454990</u>	5137841	150	12/22/1989	A THIN FILM TRANSISTOR USING POSITIVE AND NEGATIVE PHOTORESISTS	YAMASHITA, ICHIRO
<u>07574484</u>	Not Issued	166	08/28/1990	METHOD AND APPARATUS FOR GROWING SILICON CRYSTALS	YAMASHITA, ICHIRO
<u>07722550</u>	5303072	150	06/26/1991	LIQUID CRYSTAL DISPLAY DEVICE	YAMASHITA, ICHIRO
<u>07814430</u>	Not Issued	161	12/30/1991	METHOD FOR FORMING ULTRA-FINE STRUCTURES	YAMASHITA, ICHIRO
<u>07833921</u>	5166086	150	02/12/1992	THIN FILM TRANSISTOR ARRAY AND METHOD OF MANUFACTURING SAME	YAMASHITA, ICHIRO
<u>07855741</u>	5371746	150	03/23/1992	PROGRAM DEBUGGING SYSTEM FOR A DISTRIBUTED DATA PROCESSING SYSTEM	YAMASHITA, ICHIRO
<u>07913927</u>	5288386	150	07/17/1992	SPUTTERING APPARATUS AND AN ION SOURCE	YAMASHITA, ICHIRO
<u>07933879</u>	5264189	150	08/21/1992	APPARATUS FOR GROWING SILICON CRYSTALS	YAMASHITA, ICHIRO
<u>07958268</u>	5398043	150	10/08/1992	DRIVING METHOD FOR A DISPLAY DEVICE	YAMASHITA, ICHIRO

<u>08104899</u>	5369337	150	08/12/1993	A DC OR HF ION SOURCE	YAMASHITA, ICHIRO
<u>08348831</u>	Not Issued	166	11/29/1994	VIRTUAL MEMORY SYSTEM	YAMASHITA, ICHIRO
<u>08394346</u>	Not Issued	161	02/23/1995	COOLING DEVICE FOR ELECTRONIC COMPONENTS	YAMASHITA, ICHIRO
<u>08534317</u>	5819044	150	09/27/1995	NAME SERVICE APPARATUS USING RESOURCE MANAGEMENT, NAME RESOLUTION AND VIRTUAL RESOURCE REALIZATION FOR REALIZING A VIRTUAL RESOURCE BY APPLYING THE PROCEDURE TO THE ACTUAL RESOURCE	YAMASHITA, ICHIRO
<u>08545030</u>	5706501	150	10/19/1995	APPARATUS AND METHOD FOR MANAGING RESOURCES IN A NETWORK COMBINING OPERATIONS WITH NAME RESOLUTION FUNCTIONS	YAMASHITA, ICHIRO
<u>08596756</u>	5646420	250	02/05/1996	SINGLE ELECTRON TRANSISTOR USING PROTEIN	YAMASHITA, ICHIRO
<u>08611193</u>	5849252	150	03/05/1996	CHARGED PARTICLE ACCELERATOR APPARATUS AND ELECTRONIC STERILIZER APPARATUS USING THE SAME	YAMASHITA, ICHIRO
<u>08627072</u>	Not Issued	161	04/03/1996	INFORMATION PROCESSING APPARATUS FOR KEEPING RELATIONS BETWEEN RESOURCES AND PROCEDURES	YAMASHITA, ICHIRO
<u>08729370</u>	5822509	150	10/17/1996	DRAWING PROGRAM CREATING METHOD	YAMASHITA, ICHIRO
<u>08762699</u>	Not Issued	161	12/12/1996	VIRTUAL MEMORY SYSTEM PROVIDING PAGING OPERATION WITH DATA TRANSFER AND CONVERSION CONTROL	YAMASHITA, ICHIRO
<u>08798572</u>	5705820	150	02/11/1997	MAGNETIC BEAM DEFLECTION SYSTEM AND METHOD	YAMASHITA, ICHIRO
<u>08803633</u>	Not	161	02/21/1997	DRAWING PROCESSOR AND	YAMASHITA,

	Issued			DRAWING PROCESSING METHOD	ICHIRO
<u>08872104</u>	6014765	150	06/10/1997	DATA TRANSMISSION APPARATUS AND METHOD	YAMASHITA, ICHIRO
<u>09086672</u>	Not Issued	161	05/29/1998	TWO-DIMENSIONALLY ARRAYED QUANTUM DEVICE	YAMASHITA, ICHIRO
<u>09208753</u>	6303516	150	12/10/1998	METHOD FOR FORMING DOT ELEMENT	YAMASHITA, ICHIRO
<u>09228276</u>	6121075	150	01/11/1999	FABRICATION OF TWO-DIMENSIONALLY ARRAYED QUANTUM DEVICE	YAMASHITA, ICHIRO
<u>09320695</u>	6342716	150	05/27/1999	SEMICONDUCTOR DEVICE HAVING DOT ELEMENTS AS FLOATING GATE	YAMASHITA, ICHIRO
<u>09569757</u>	6621191	150	05/12/2000	STRUCTURE CONTAINING ORGANIC MOLECULAR LAYER AND USE THEREOF	YAMASHITA, ICHIRO
<u>09577138</u>	6319738	150	05/24/2000	Two-dimensionally arrayed quantum device fabrication method	YAMASHITA, ICHIRO
<u>09617799</u>	6287928	150	07/17/2000	Two-dimensionally arrayed quantum device	YAMASHITA, ICHIRO
<u>09765434</u>	Not Issued	93	01/22/2001	STRUCTURED DOCUMENT PROCESSING SYSTEM AND STRUCTURED DOCUMENT PROCESSING METHOD	YAMASHITA, ICHIRO
<u>09807760</u>	6519137	150	07/16/2001	SOLID ELECTROLYTIC CAPACITOR AND PRODUCTION METHOD THEREOF, AND CONDUCTIVE POLYMER POLYMERIZING OXIDIZING AGENT SOLUTION	YAMASHITA, ICHIRO

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